



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 6, 2016

Tammy Tyler
Regulatory Product Manager
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419-8300

Subject: Label Amendment – Revisions to rotational crop table and irrigation directions on various crops
Product Name: RIDOMIL GOLD SL
EPA Registration Number: 100-1202
Application Date: 11/03/2015
Decision Number: 510853

Dear Ms. Tyler:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Maryam K. Muhammad by phone at 703-347-0301, or via email at Muhammad.maryam@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to be 'HJ', written in a cursive style.

Hope Johnson, Product Manager 21
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[Booklet]

GROUP 4 FUNGICIDE

Ridomil Gold® SL

Fungicide

For the control of certain diseases in various crops caused by the Oomycete class of fungi

Active Ingredient:

Mefenoxam* 45.3%

Other Ingredients: 54.7%

Total: 100.0%

*CAS Nos. 70630-17-0 and 69516-34-3

Ridomil Gold® SL is formulated as a soluble concentrate and contains 4 lb active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1202

EPA Est.

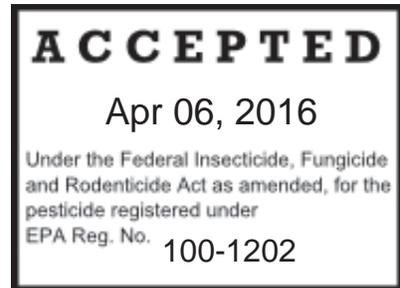
Product of XXXXX

Formulated in XXXXX

SCP 1202

___pint
Net Contents

___gallon
Net Contents



FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by the poison control center or doctor. • Do not give anything to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, (barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or Viton®)
- Shoes plus socks

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Groundwater Advisory

Mefenoxam is known to leach through the soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of

this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT APPLY this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. For crop uses that fall under this REI, see Part 2, *Soil-Directed and Other Foliar Applications* under *Directions for Use* of this label.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area immediately if there will be no contact with anything that has been treated. For crop uses that fall under this Exception, see Part 1, *Soil-Injected or Soil-Incorporated Applications* under *Directions for Use* of this label.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, (barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or Viton)
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND RESTRICTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.

PRODUCT INFORMATION

Ridomil Gold SL is a systemic fungicide for use on selected crops to control certain diseases caused by members of the Oomycete class of fungi.

PRODUCT USE RESTRICTIONS

Do not use Ridomil Gold SL in greenhouses or other structures such as lath houses, float houses, and hydroponic facilities.

Do not use Ridomil Gold SL for disease control in bedding plants, transplant trays, or nurseries except where specifically allowed in certain crop sections.

DO NOT USE RIDOMIL GOLD SL AS A FOLIAR APPLICATION UNLESS SPECIFIED ON THIS LABEL.

Do not dip plants or roots, spray bare roots, or use a transplant water treatment with solutions containing Ridomil Gold SL except where specifically allowed in certain crop sections.

Under conditions conducive to severe disease pressure, additional fungicide applications may be applied using an alternate fungicide registered for the crop/disease appearing on this label.

Where rate ranges are specified on this label, use the higher rate when heavy disease pressure is expected and the lower rate when disease pressure is expected to be light, unless otherwise noted.

Where mefenoxam/metalaxyl products used allow the same maximum poundage of active ingredient per acre per calendar year:

If more than one product containing mefenoxam/metalaxyl active ingredient is used on an acre during the same calendar year and the mefenoxam/metalaxyl products used allow the same maximum poundage of active ingredient per acre per calendar year, then the total poundage of all such mefenoxam/metalaxyl products used must not exceed any of the specified individual mefenoxam/metalaxyl product maximum poundage of active ingredient allowed per acre per calendar year.

Where mefenoxam/metalaxyl products used allow different maximum poundage of active ingredient per acre per calendar year:

If more than one product containing an mefenoxam/metalaxyl active ingredient is used on an acre during the same calendar year and the mefenoxam/metalaxyl products used allow different maximum poundage of active ingredient per acre per calendar year, then the total poundage of all such mefenoxam/metalaxyl products used must not exceed the lowest specified individual mefenoxam/metalaxyl product maximum poundage of active ingredient allowed per acre per calendar year.

Soil-applied maximum application rates include all uses in Part 1 and all uses in Part 2 except foliar applications.

Replanting

If replanting is necessary, additional applications of Ridomil Gold SL may be made, provided that the total amount of active ingredient in Ridomil Gold SL applied does not exceed the maximum allowed for the specific crop.

PRODUCT USE INSTRUCTIONS

Application: Apply Ridomil Gold SL by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Apply in a minimum of 20 gal per acre for ground applications and 3 gal per acre by air. Refer to the *Directions for Use* for specific crop application directions. Refer to *Application Instructions* for band and in-furrow calculations.

Moving Ridomil Gold SL into the Root or Seed Zone:

To ensure maximum activity on soilborne pathogens, Ridomil Gold SL must be moved into the seed or root zone of the plant. Follow the specific crop directions. Placement in the seed or root zone includes in-furrow sprays, soil injections, crown dips.

Incorporation includes preplant incorporated applications, soil drenches, or shank applications. For soil surface sprays, rainfall will move the fungicide into the seed or root zone, but if rain is not expected within 24 hours after application, mechanically incorporate (before planting) or sprinkler irrigate (after planting) with ½ to 1 inch of water.

Efficacy: Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if maximum amount of Ridomil Gold SL has been used. If resistant isolates to Group 4 fungicides are present, efficacy can be reduced. Under high disease pressure, it is recommended to use the highest rate and shortest interval when needed.

Crop Tolerance: Plant tolerance has been found acceptable for all crops on the label, however, not all possible tank-mix combinations have been tested under all conditions. When possible, it is recommended to test the combinations on a small portion of the crop to ensure a phytotoxic response will not occur as a result of application.

Spray Drift Management: To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap as crop injury may occur. The interaction of many equipment and weather related factors determine the potential for spray drift. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. More information on managing spray drift can be found on the Syngenta Crop Protection website under Stewardship <http://www.syngentacropprotection-us.com/enviro/driftmanagement/>

IPM: Ridomil Gold SL should be integrated into an overall disease and pest management strategy (IPM) whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. Consult your local agricultural authorities for additional IPM strategies established for your area.

Rotation Crop	Planting Time From Last Ridomil Gold SL Application
Alfalfa (birdsfoot trefoil) Apple Artichoke, Globe Asparagus Avocados Bushberry Subgroup 13-07B (e.g., blueberries, cranberries) Caneberry Subgroup 13-07A (e.g. blackberry and raspberry) Carrots Citrus Clover Brassica (Cole) Leafy Vegetables (e.g., broccoli, cabbage, cauliflower) Cotton Cucurbit Vegetables (e.g., cucumber, melons, squash) Fruiting Vegetables (e.g., tomatoes, peppers, eggplant) Ginseng Grapes Grass, Forage, Fodder and Hay Herbs (fresh and dried) Hops Leafy Vegetables, except Brassica (e.g., lettuce, spinach, celery) Legume Vegetables (e.g., beans and peas, succulent and dried) Onions (dry bulb, garlic, and green) Peanuts Pineapples Root and Tuber Vegetables (e.g. potatoes, carrots, sugar beets) Soybeans Stone fruits Strawberries Sugar beets Sunflower Tobacco Tomato Tree nuts Tropical fruits (e.g. papaya, mango, kiwifruit) Corn	0 days
Cereal Grains (except Corn)	14 days
Crops Not Intended for Food or Feed	0 days

All Other Crops Intended for Food or Feed	12 months
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RESISTANCE MANAGEMENT

GROUP 4 FUNGICIDE

Ridomil Gold SL is in the Group 4 class fungicide having a specific mode of action and is subject to the development of insensitive strains of fungi. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or state agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Syngenta encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label. Ridomil Gold SL should not be alternated or tank-mixed with any fungicide to which resistance has already developed.

SPRAY EQUIPMENT

Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Nozzles should be the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- It is suggested that screens be used to protect the pump and to prevent nozzles from clogging.
- Screens placed on suction side of pump should be *16-mesh or coarser*.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's recommendations.

Pump

- Use a pump with capacity to:
 - (1) Maintain 35-40 psi at nozzles
 - (2) Provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.
- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural recommendations.

MIXING INSTRUCTIONS

- Prepare no more spray mixture than is required for the immediate operation.
- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

Ridomil Gold SL Alone (no tank mix):

- Add $\frac{1}{4}$ - $\frac{1}{2}$ of the required amount of water to the spray or mixing tank.
- With the agitator running, add Ridomil Gold SL to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Ridomil Gold SL has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

Ridomil Gold SL + Tank Mixtures: Ridomil Gold SL is usually compatible with all tank-mix partners listed on this label. To determine the physical compatibility of Ridomil Gold SL with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 20 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Do not combine Ridomil Gold SL in the spray tank with pesticides, surfactants or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective and non-injurious under your conditions of use.

Mixing in the Spray Tank:

- Add $\frac{1}{4}$ - $\frac{1}{2}$ of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Ridomil Gold SL to the spray tank.
- Allow Ridomil Gold SL to completely disperse.
- Spray the mixture with the agitator running.
- Observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label.
- Do not exceed maximum label dosage rates, and the most restrictive label precautions and limitations must be followed.
- Do not tank mix this product with any product which prohibits such mixing.

APPLICATION PROCEDURES

Ground Application (Broadcast):

- Apply in a minimum of 20 gal of water per acre, unless specified otherwise.

Ground Application (Banded):

- Application rates in the *Directions for Use* are generally expressed as an amount per acre which refers to the total crop area to be treated. If using a banded application, use proportionally less product using the formula below:

$$\frac{\text{band width in inches}}{\text{row spacings in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

Ground Applications (In-Furrow):

- Apply Ridomil Gold SL as an in-furrow spray in 3-7 gal per acre of water at planting.
- Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered.
- The following table provides common row spacings and the amount of Ridomil Gold SL to apply per acre.

Use Rate fl oz/1,000 row feet (oz ai/1,000 row feet)	Ridomil Gold SL fl oz/A								
	20- inch rows	22- inch rows	24- inch rows	30- inch rows	32- inch rows	34- inch rows	36- inch rows	38- inch rows	40- inch rows
0.08 (0.038)	2.0	1.8	1.6	1.4	1.2	1.1	1.1	1.0	0.9
0.15 (0.078)	4.0	3.6	3.2	2.8	2.4	2.3	2.2	2.0	1.9
0.28 (0.14)	7.0	6.7	6.1	4.8	4.6	4.3	4.0	3.8	3.7
0.42 (0.21)	11.0	10.0	9.1	7.3	6.8	6.5	6.1	5.8	5.4

20" = 26,136 row ft/A, 22" = 23,760 row ft/A, 24" = 21,780 row ft/A, 30" = 17,424 row ft/A, 32" = 16,315 row ft/A, 34" = 15,374 row ft/A, 36" = 14,520 row ft/A, 38" = 13,754 row ft/A, 40" = 13,068 row ft/A

Aerial Application:

- Apply in a minimum of 3 gal of water per acre, unless specified otherwise.
- Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur.
- Do not apply product in a manner that the product application will contact humans or animals.

Application through Irrigation Systems (Chemigation):

- Apply this product only through center pivot, solid set, hand move, moving wheel, micro-sprinkler, or drip irrigation systems. Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- Ridomil Gold SL must be applied on the schedule specified in the specific crop use directions, not according to the irrigation schedule.

Note: Do not inject Ridomil Gold SL at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 15 parts water to 1 part Ridomil Gold SL in the mix tank. Ridomil Gold SL can affect many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene, or PVC seals.

Operating Instructions

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

DIRECTIONS FOR USE – PART 1

SOIL-INJECTED OR SOIL-INCORPORATED APPLICATIONS

The restricted-entry interval (REI) for soil-injected or soil-incorporated applications is 0 hours.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Alfalfa (birdsfoot trefoil)	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	0.25-0.50 pt/A (0.12-0.25)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting. If alfalfa seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.25 pt/A rate.

For additional applications, see Alfalfa in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- Do not feed green forage or cut hay for 60 days following application (60-day PHI).

Artichoke, Globe	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	1.0-2.0 pt/A (0.50-1.0)	Soil spray (broadcast): Apply at planting.
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Use Restrictions:

- Do not apply within 200 days of harvest (200-day PHI).

Avocados	Root Rot (<i>Phytophthora cinnamomi</i>)	Diluted Mixture: 0.25 fl oz in 18 gal water	Sleeve drench: At transplanting, drench the roots inside the sleeve with 1 qt of the diluted mixture per tree. Sleeve drench does not replace other soil applications for long-term control of root rot. Injection (drip irrigation): Inject Ridomil Gold SL into the irrigation water at the start of the growing season or at transplanting and as soon as soil tests indicate the presence of <i>Phytophthora</i> . Two additional applications may be made at 3-month intervals. Applications are not needed during the winter months of November through February. For new plantings, use <i>Phytophthora</i> -resistant rootstocks. Mature trees in moderate to advanced stages of decline cannot be cured with Ridomil Gold SL.
		2.0-4.0 pt/A (1.0-2.0) or 0.50-1.0 fl oz/ 1,000 gal water (3.9-7.8 ppm)	

For additional applications, see Avocados in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- 1) Do not apply within 28 days of harvest (28-day PHI).
- 2) Do not exceed the equivalent of 6.0 lb ai/A per crop of soil-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Bushberry Subgroup:</p> <p>Blueberries (High and Low Bush) Currants Elderberry Gooseberry Highbush Cranberry</p> <p>Hybrids, cultivars, and varieties of these</p> <p>*See below for additional berries subgroup.</p>	<p>Root Rot (<i>Phytophthora</i> spp.)</p>	<p>3.6 pt/A (1.8)</p> <p>or</p> <p>0.25 pt/1,000 row ft</p>	<p>Soil Spray (broadcast, band or drip) New Plantings: Make one application at the time of planting. For band applications use an 18-inch band.</p> <p>(See direction for <i>Established Plantings</i> in Part 2 for subsequent applications).</p> <p>Use Ridomil Gold SL in conjunction with good cultural practices to minimize disease.</p>

*Aronia Berry, Highbush Blueberry, Lowbush Blueberry, Buffalo Currant, Chilean Guava, Black Currant, Red Currant, Elderberry, European Barberry, Gooseberry, Highbush Cranberry, Edible Honeysuckle, Huckleberry, Jostaberry, Juneberry, Lingonberry, Native Currant, Salal, and Sea Buckthorn.

Use Restrictions:

- 1) Do not exceed the equivalent of 3.6 lb ai/A per crop of soil-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Caneberry (Blackberry and Raspberry) Subgroup:</p> <p>Blackberry Raspberry (Red and Black) Wild Raspberry Cultivars</p> <p>Hybrids, cultivars, and varieties of these.</p> <p>*See below for additional types of caneberries.</p>	<p>Root Rot (<i>Phytophthora</i> spp.)</p>	<p>3.6 pt/A (1.8)</p> <p>or</p> <p>0.25 pt/1,000 row ft</p>	<p>Soil Spray (broadcast, band or drip)</p> <p>New Plantings: Make one application at the time of planting. For band applications use an 18-inch band.</p> <p>(See directions for <i>Established Plantings</i> in Part 2 for subsequent applications.)</p> <p>Use Ridomil Gold SL in conjunction with good cultural practices to minimize disease.</p>

*Andean Blackberry, Arctic Blackberry, Bingleberry, Black Satin Berry, Boysenberry, Brombeere, California Blackberry, Cherokee Blackberry, Chesterberry, Cheyenne Blackberry, Common Blackberry, Coryberry, Darrowberry, Dewberry, Dirksen Thornless Berry, Evergreen Blackberry, Himalayaberry, Hullberry, Lavacaberry, Loganberry, Lowberry, Lucretiaberry, Mammoth Blackberry, Marionberry, Mora, Mures Deronce, Nectarberry, Northern Dewberry, Olallieberry, Oregon Evergreen Berry, Phenomenalberry, Rangeberry, Ravenberry, Rosberry, Shawnee Blackberry, Southern Dewberry, Tayberry, Youngberry, and Zarzamora.

Use Restrictions:

- 1) Do not exceed the equivalent of 1.8 lb ai/A per crop of soil-applied and 0.2 lb ai/A per crop of foliar-applied mefenoxam-containing products for a maximum seasonal application rate of 2.0 lb ai/A.
- 2) Do not make more than one soil application per season at 3.6 pt/A.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Carrots	Damping Off Cavity Spot Root Dieback (<i>Pythium</i> spp.)	0.5-1.3 pt/A (0.25-0.65)	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting or prior to emergence.</p> <p>For banded applications, use a 7-inch band.</p> <p>NOTE: If post planting applications are planned, see notes below for guidance on maximum rates for soil and foliar applications.</p> <p>For best control of cavity spot, use a preventive disease control program that incorporates an at-planting or seed treatment use of Ridomil Gold SL or Apron XL® followed by one or more additional applications.</p>

For additional applications, see Carrots in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- 1) Do not use a soil application if a seed treatment containing mefenoxam or metalaxyl is used.
- 2) Do not exceed the equivalent of 1.4 lb ai/A (2.8 pt/A) per crop of total mefenoxam-containing products.
- 3) Do not exceed the equivalent of 0.65 lb ai/A (1.3 pt/A) per crop of soil-applied and 0.75 lb ai/A (1.5 pt/A) per crop of foliar-applied mefenoxam-containing products.

Clover	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	0.25-0.50 pt/A (0.125-0.25)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting. If the clover seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.25 pt/A rate.
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Use Restrictions:

- Do not feed green forage or cut hay for 90 days following application (90-day PHI).

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Cole Crops Broccoli Brussels Sprouts Cabbage Cauliflower Collards Mustard Greens Hybrids, cultivars, and varieties of these. *See additional cole crops below.	Basal Stem Rot (<i>Phytophthora</i> spp.)	1.0-2.0 pt/A (0.50-1.0)	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting.</p> <p>Injection (drip irrigation): Inject Ridomil Gold SL into the irrigation water at the labeled rates.</p> <p>For banded applications, use a 7-inch band.</p>
	Damping Off (<i>Pythium</i> spp.)	0.25-0.50 pt/A (0.125-0.250)	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil.</p> <p>For banded applications, use a 7-inch band.</p>

*Broccoli Raab (rapini), Cavalo Broccolo, Chinese Broccoli (gai Ion), Chinese Cabbage (bok choy and napa), Chinese Mustard Cabbage (gai choy), Kale, Kohlrabi, Mizuna, Mustard Spinach, and Rape Greens.

For Downy Mildew control, see Cole Crops in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.50 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Cotton	Seed and Root Rot (<i>Pythium ultimum</i>) Seedling Blight (<i>Pythium aphanidermatum</i>)	0.075-0.15 fl oz/1,000 row ft (0.002-0.004)	In-furrow spray: Apply in water or liquid fertilizer at planting. Direct the spray into the furrow over the seed just before the seeds are covered.
Cucurbits Cantaloupe Cucumber Honeydew Pumpkin Squash, Summer Squash, Winter Watermelon Hybrids, cultivars, and varieties of these. *See additional cucurbit crops below.	Damping Off (<i>Pythium</i> spp.) Suppression: Phytophthora blight (<i>Phytophthora capsici</i>)	1.0-2.0 pt/A (0.50-1.0)	Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil. Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Injection (drip irrigation): Inject Ridomil Gold SL into the irrigation water at the labeled rates. For banded applications, use a 7-inch band.

*Chayote, Chinese Waxgourd, Citron Melon, Gherkin, Gourd (edible), *Momordica* spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber), and Muskmelons (casaba, crenshaw, golden pershaw, honey balls, mango, Persian, pineapple, Santa Claus, snake melons).

For additional applications, see Cucurbits in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Fruiting Vegetables (Except Cucurbits) Eggplant Groundcherry Pepino Pepper (bell, chili, cooking pepper, pimento, sweet) Tomatillo Tomato (see <i>Tomato</i> section for specific use directions)	Damping Off (<i>Pythium</i> spp.) Crown Rot (<i>Phytophthora capsici</i>)	1.0 pt/A (0.50)	To control Crown Rot, apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora capsici</i> cannot be cured with Ridomil Gold SL. Soil spray (broadcast or band): Apply in water or liquid fertilizer preplant or at planting. For direct seeded peppers, apply preplant or prior to emergence. For banded applications, use a 12- to 16-inch band. Injection (drip irrigation): Inject Ridomil Gold SL into the irrigation water. Make up to two additional applications on a 30-day schedule following initial application at planting.

For additional applications, see Fruiting Vegetables in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- 1) Do not apply within 7 days of harvest (7-day PHI).
- 2) Do not exceed the equivalent of 1.5 lb ai/A per crop of soil-applied mefenoxam-containing products and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Ginseng	Phytophthora Root Rot (<i>Phytophthora cactorum</i>)	0.75 pt/A (0.375)	Soil drench: For stand establishment, apply uniformly to the soil surface in the spring before the plants start growing. Apply in 100-400 gal of water per acre. Follow with additional applications of Ridomil Gold GR (See Ridomil Gold GR label).
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Use Restrictions:

- Do not make additional applications of Ridomil Gold SL - maximum one application per year allowed.

Grapes	Root and Crown Rot (<i>Phytophthora</i> spp.)	3.6 pt/A (1.8) or 0.25 pt/1000 row ft Drip irrigation: 0.5 – 1.0 fl oz/1000 gals of water or 4 fl oz (0.25 pt)/100 linear feet of row.	Soil spray (broadcast, band or drip): Apply in the spring before the plants start growing in sufficient water to provide uniform coverage. Two additional applications may be made to coincide with periods most favorable for root rot development. Soil spray (broadcast or band): For banded applications, use a 3-ft band at the base of the plants. Calculate the correct amount based on 3.6 pt/A using the instructions in the Application Procedures section. Drip irrigation: Apply 0.5 – 1.0 fl oz/1000
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			<p>gals of water or 4 fl oz (0.25 pt)/100 linear feet of row. Inject Ridomil Gold SL into the irrigation water at the beginning of the growing season (bud break) or at transplanting. Two additional applications may be made at 3 month intervals. Applications are not needed during the winter dormancy period.</p>
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Use Restrictions:

- 1) Do not exceed the equivalent of 5.4 lb ai/A per crop of soil-applied mefenoxam-containing products and 0.4 lb ai/A per crop of foliar-applied mefenoxam-containing products.
- 2) Do not apply within 60 days of harvest (60-day PHI).

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Grass, Forage, Fodder, and Hay*	Seedling Diseases (<i>Pythium</i> spp.)	0.25-1.0 pt/A (0.125-0.50)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting. If the grass seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.25-0.50 pt/A rate.

*Enclosed pasture grasses or grasses grown for hay or silage such as Bermuda grass, bluegrass, brome grass, or fescue.

Use Restrictions:

- 1) Do not apply to range grasses.
- 2) Do not graze, feed green forage, or cut hay for 60 days following application (60-day PHI).

Herbs (Fresh and Dried) Basil Chervil (dried) Chive Coriander (leaf) Cilantro (leaf) Dillweed Lemongrass Rosemary Sage Savory, Summer and Winter Sweet Bay Tarragon Thyme *See additional herbs below.	Damping Off (<i>Pythium</i> spp.)	1.0-2.0 pt/A (0.50-1.0)	Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Soil spray (broadcast or band): Apply in sufficient water to provide uniform coverage. For banded applications, use a 7-inch band.
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*Angelica, Balm, Borage, Burnet, Catnip, Chamomile, Chinese Chive, Clary, Costmary, Curry (leaf), Horehound, Hyssop, Lavender, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rue, Tansy, Wintergreen, Woodruff, and Wormwood.

For additional applications, see Herbs in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- 1) Do not apply within 21 days of harvest (21-day PHI).
- 2) Do not exceed the equivalent of 2.0 lb ai/A per crop of soil-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Leafy Vegetables (Except Brassica)</p> <p>Celery Endive (Escarole) Lettuce (Head and Leaf) Parsley Rhubarb Spinach Swiss Chard</p> <p>*See additional leafy vegetables below.</p>	<p>Damping Off (<i>Pythium</i> spp.)</p>	<p>1.0-2.0 pt/A (0.50-1.0)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting.</p> <p>For banded applications, use a 7-inch band.</p> <p>Make no more than one soil application.</p>
<p>*Amaranth, Arugula, Cardoon, Celtuce, Chervil, Chinese Celery, Chrysanthemum (edible-leaved), Chrysanthemum (garland), Corn Salad, Cress (garden), Cress (Upland), Dandelion, Dock (Sorrel), Florence Fennel (finocchio), Orach, Purslane (garden), Purslane (winter), Radicchio (red chicory), Spinach (New Zealand), and Spinach (vine).</p>			
<p>Spinach Only</p>	<p>White Rust (<i>Albugo occidentalis</i>)</p> <p>Downy Mildew (<i>Peronospora effusa</i>)</p>	<p>0.25 pt/A (0.125)</p>	<p>Shank application: Shank in Ridomil Gold SL 21 days after planting or after the first cutting. Another application may be shanked in after the next cutting. A total of 2 shanked applications may be made on a 21-day interval.</p>

For additional applications to Lettuce (Head and Leaf), see Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- 1) For leafy vegetables: Do not apply within 7 days of harvest (7-day PHI). Make no more than one soil application per crop.
- 2) For lettuce: Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.4 lb ai/A per crop of foliar-applied mefenoxam-containing products.
- 3) For spinach: Spinach can be harvested with a 3-day PHI only if soil application does not exceed 1.0 lb ai/A/season and foliar application of Ridomil Gold Copper (EPA registration #100-804) formulation does not exceed 0.25 lb ai mefenoxam/A/season. Otherwise, the PHI is 21 days for spinach.
- 4) For spinach: Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied mefenoxam-containing products at planting and 0.25 lb ai/A per crop of soil-applied post planting, shanked-in applications of mefenoxam-containing products **OR** do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied mefenoxam-containing products at planting and 0.4 lb ai/A per crop of foliar-applied mefenoxam-containing products.
- 5) For spinach: A total of 2 shank applications may be made per crop.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Legume Vegetables (Succulent or Dried)</p> <p>Bean (<i>Lupinus</i> spp.) Bean (<i>Phaseolus</i> spp.) Bean (<i>Vigna</i> spp.) Broad Bean (fava bean) Chickpea (garbanzo bean) Lentil Pea (<i>Pisum</i> spp.) Pigeon Pea Soybean (immature seed) (See also <i>Soybean</i> section for specific use directions.)</p> <p>Hybrids, cultivars, and varieties of these.</p> <p>*See additional legume vegetables below.</p>	<p>Damping Off Root Rot</p> <p>(<i>Pythium</i> spp.)</p>	<p>0.50-1.0 pt/A (0.25-0.50)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting.</p> <p>For banded applications, use a 7-inch band.</p>

*Bean (*Lupinus* spp.) - grain lupin, sweet lupin, white lupin, white sweet lupin; Bean (*Phaseolus* spp.) - field, kidney, lima, navy, pinto, runner, snap, tepary, wax; Bean (*Vigna* spp.) - adzuki, asparagus, blackeyed pea, catjang, Chinese longbean cowpea, crowder pea, moth, mung, rice, southern pea, urd, yardlong; Guar; Jackbean; Lablab bean (hyacinth bean); Pea (*Pisum* spp.) - dwarf, edible-pod, English, field, garden, green, snow, sugar snap; and Sword bean.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Onions</p> <p>Dry Bulb Garlic Onions (dry bulb) Shallots (dry bulb)</p> <p>Green Green Eschalots Green Onions Green Shallots Japanese Bunching Onions Leeks Spring Onions Scallions</p> <p>*Hybrids, cultivars, and varieties of these.</p>	<p>Damping Off (<i>Pythium</i> spp.)</p>	<p>0.50-1.0 pt/A (0.25-0.50)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting.</p> <p>For banded applications, use a 7-inch band.</p>

***Dry Bulb Crops:** Great-headed Garlic, Serpent Garlic, Lily Bulb, Chinese Onion Bulb, Pearl Onion, Potato Onion Bulb.

***Green Bulb Crops:** Chive (fresh leaves), Chinese Chive (fresh leaves), Hosta Elegans, Fritillaria (leaves), Kurrat, Lady's Leek, Beltsville Bunching Onions, Onion (fresh), Macrostem Onion, Tree Tops Onion, Welsh Onion (tops), and Shallot (fresh leaves).

Use Restrictions:

- 1) Onions (dry bulb): Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.
- 2) Onions (green): Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.3 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Peanuts	Pythium Root Rot (<i>Pythium</i> spp.)	0.25 pt/A (0.125)	<p>In-furrow spray: For seedling disease control, position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly or crop injury may occur.</p> <p>Soil spray (banded): For banded applications, apply over the row. Use a 7-inch band.</p>

For additional applications, see Peanuts in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Pineapple	Heart Rot Disease (<i>Phytophthora</i> spp.)	0.50-1.0 pt in 100 gal water (0.25-0.50)	Crown dip: Apply as a crown dip before planting. Amount of dip solution per acre will depend on crown size, plant density, and dipping techniques. Use 75-100 gallons of the mixture per acre for dipping.
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Use Restrictions:

- If there is crop failure within one year of planting treated crowns, do not harvest plant material for animal feed.

Potatoes	Pythium Leak (<i>Pythium</i> spp.) Pink Rot (<i>Phytophthora erythroseptica</i>) Pythium Seedling Disease (<i>Pythium</i> spp.)	0.42 fl oz/ 1,000 row ft (0.013)	<p>In-furrow spray: Apply directly over the seed pieces in furrow as a 6- to 8-inch band prior to row closure or use markout application method (incorporated).</p> <p>You may need to follow this in-furrow application with a Ridomil Gold prepack or tank mix (Part 2) foliar application at tuber initiation:</p> <ul style="list-style-type: none"> • When conditions are conducive for disease development. • When the variety is susceptible or moderately susceptible to Pink Rot/Pythium leak. • In areas with a long growing season. <p>Ridomil Gold SL may be impregnated on dry fertilizer or applied in combination with liquid fertilizers.</p>
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Use Restrictions:

- 1) Do not use the “dribble” application method.
- 2) Do not apply Ridomil Gold SL beyond the at-planting stage.
- 3) Do not exceed the equivalent of 0.34 lb ai/A per crop of soil-applied and 0.40 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Root and Tuber Vegetables</p> <p>Artichoke (Chinese and Jerusalem)</p> <p>Beet, Garden</p> <p>Beet, Sugar (See <i>Sugar Beet</i> section for specific use directions.)</p> <p>Carrots (See <i>Carrots</i> section for specific use directions.)</p> <p>Ginseng (See <i>Ginseng</i> section for specific use directions.)</p> <p>Horseradish</p> <p>Parsley, Turnip-rooted</p> <p>Parsnip</p> <p>Potato (See <i>Potato</i> section for specific use directions.)</p> <p>Radish</p> <p>Radish, Oriental (daikon)</p> <p>Rutabaga</p> <p>Sweet Potato</p> <p>Turnip</p> <p>Yam Bean (jicama, manioc pea)</p> <p>Yam, True</p> <p>*See additional root and tuber vegetables below.</p>	<p>Pythium Root Rot (<i>Pythium</i> spp.)</p> <p>Phytophthora Root Rot (<i>Phytophthora</i> spp.)</p>	<p>1.0-2.0 pt/A (0.50-1.0)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use sufficient water to provide uniform coverage of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting.</p> <p>For banded applications, use a 7-inch band.</p>

*Arracacha, Arrowroot, Burdock (edible), Canna (edible), Cassava (bitter and sweet), Celeriac (celery root), Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Leren, Salsify (oyster plant, black, Spanish), Skirret, Tanier (cocoyam), Turmeric

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Soybeans	Phytophthora Root and Stem Rot (<i>Phytophthora megasprema</i>)	0.08-0.28 fl oz/1,000 row ft (0.0025 to 0.0087)	In-furrow spray: Apply in-furrow with water or liquid fertilizer. Position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly or crop injury may occur. Use the higher specified rate for full-season control. Use 0.08-0.15 fl oz for early- to mid-season control.
	Pythium Damping Off (<i>Pythium</i> spp.)	0.37-1.25 pt/A (0.18-0.63)	<p>Soil spray (broadcast or band): Apply in water or liquid fertilizer. Use the higher specified rate for full-season control. Use 0.37-0.75 pt for early- to mid-season control. For banded applications, use a 7-inch band.</p> <p>For best results, use soybean varieties that have some degree of resistance to the races of <i>Phytophthora</i> present in the field.</p> <p>Use the higher rate in areas with a history of heavy <i>Phytophthora</i> damage.</p> <p>Under heavy late-season <i>Phytophthora</i> pressure, Ridomil Gold SL may not provide complete control.</p>
Strawberries	<p>Red Stele (<i>Phytophthora fragariae</i>)</p> <p>Vascular Collapse (<i>P. cactorum</i>)</p> <p>Leather Rot (<i>P. cactorum</i>)</p>	1.0 pt/A (0.50)	<p>Drip irrigation application only (see Part 2 for other application methods).</p> <p>Annual plantings: Apply up to 3 times per crop. Make the first application after transplanting. Make the second application 30 days before the beginning of harvest or at fruit set. Apply the third application during harvest, depending on disease pressure and environmental conditions.</p> <p>Established plantings: Apply up to 3 times per crop. Make the first application in the spring after the ground thaws and before first bloom. Make a second application after harvest in the fall. For control of leather rot, make an additional application during the growing season at fruit set.</p> <p>When applying through drip irrigation, calculate the rate as a band application with a band width equal to the root zone width. Inject Ridomil Gold SL into the irrigation water.</p> <p>Ridomil Gold SL may be applied the day of</p>

harvest.

Use Restrictions:

- 1) Do not exceed the equivalent of 1.5 lb ai/A per crop of soil-applied mefenoxam-containing products.
- 2) Do not apply more than 3 applications per crop.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Sugar Beets	Pythium Root Rot (<i>Pythium</i> spp.)	1.0-2.0 pt/A (0.50-1.0)	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting.</p> <p>For banded applications, use a 7-inch band.</p>
Tobacco	Damping Off (<i>Pythium</i> spp.)	0.50-1.0 pt/A (0.25-0.50) or 0.25-0.50 fl oz/150 sq yd	<p>Soil spray (broadcast): Apply as a preplant soil application before or at time of planting. Use higher application rate on broadleaf tobacco. Use 50 gal/A of water (2 gal water/150 sq yd).</p>
	Blue Mold (<i>Peronospora tabacina</i>)	0.50-1.0 pt/A (0.25-0.50) For no-till tobacco: 0.50-1.0 pt/A (0.25-0.50)	<p>Soil spray (broadcast): Apply as a broadcast soil application prior to transplanting and incorporate in the top 2-4 inches of soil before forming beds. Use the low rate for low disease pressure or early-season control. Use the higher specified rate for high disease pressure, extended control, and burley and other tobacco types other than flue-cured.</p>
	Black Shank (<i>Phytophthora parasitica</i> var. <i>nicotianae</i>)	Broadcast 1.0-3.0 pt/A (0.50-1.5) For no-till tobacco: 0.50-1.0 pt/A (0.25-0.50)	<p>Soil spray (broadcast): Apply to the soil within one week of planting. Incorporate in the top 2-4 inches of soil. Use the higher specified rate if the disease epidemic is expected to be severe. In FL and GA, use 3 pt/A where black shank is severe.</p> <p>Apply preventively for effective black shank control. If black shank is expected early in the season, apply as near as possible to transplanting followed by sequential applications.</p>

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For additional applications, see Tobacco in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- 1) Do not use in high black shank areas on highly susceptible flue-cured varieties.
- 2) Do not use Ridomil Gold SL for black shank control in PA.
- 3) Do not exceed the equivalent of 1.5 lb ai/A per crop of mefenoxam-containing products.
- 4) Do not apply to stressed seedlings or during hot and dry conditions due to injury potential.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Tomato	Damping Off (<i>Pythium</i> spp.)	1.0-2.0 pt/A (0.50-1.0)	<p>Soil spray (broadcast or band): Apply at planting in water or liquid fertilizer.</p> <p>For banded applications, use a 7-inch band.</p>
	Root and Fruit Rot (<i>Phytophthora</i> spp.) (<i>Pythium</i> spp.)	1.0 pt/A (0.50)	<p>Injection (drip irrigation): Initiate control of Root and Fruit Rot with a soil application as described above. Make subsequent applications through drip irrigation. Make the first drip application 4-6 weeks after planting. Apply the second drip application as needed up to 4 weeks before harvest, but before the last irrigation.</p> <p>For injected applications, base rate calculations on a 7-inch band.</p>

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
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For additional applications, see Tomato in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Use Restrictions:

- Do not exceed the equivalent of 1.5 lb ai/A per crop of soil-applied mefenoxam-containing products and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

DIRECTIONS FOR USE – PART 2

SOIL-DIRECTED AND OTHER FOLIAR APPLICATIONS

The restricted-entry interval (REI) for soil-directed or foliar applications is 48 hours.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Alfalfa (birdsfoot trefoil)	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	0.25 pt/A (0.12)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting when inter-seeding into existing stands for renovation.

For additional applications, see Alfalfa in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- Do not feed green forage or cut hay for 60 days following application (60-day PHI).

Apple Bearing and Nonbearing Trees	Crown Rot Collar Rot Root Rot (<i>Phytophthora</i> spp.)	2 qt/A (2.0) or 1.5 fl oz/ 1,000 sq ft	Soil spray (broadcast, band or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) in the spring before growth begins (established plantings). Apply to the soil in the early spring before growth starts and in the fall after harvest, but before the ground freezes. The treated area is based on the area under the tree canopy or the area of the sprayed row. Use sufficient water volume to obtain thorough coverage of the soil.
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Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions								
		Diluted Mixture: 0.50 pt in 100 gal water (0.25)	<p>Soil drench: Apply the diluted mixture around the trunk of each tree in the early spring before growth starts and in the fall after harvest, but before the ground freezes. On new plantings, delay the first application until 2 weeks after planting.</p> <table border="1" data-bbox="889 520 1417 709"> <thead> <tr> <th data-bbox="889 520 1192 615">Trunk diameter at 12 inches above the soil line</th> <th data-bbox="1195 520 1417 615">Quantity of Diluted Mixture</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 619 1192 646"><1 inch</td> <td data-bbox="1195 619 1417 646">1 qt</td> </tr> <tr> <td data-bbox="889 651 1192 678">1-3 inches</td> <td data-bbox="1195 651 1417 678">3 qt</td> </tr> <tr> <td data-bbox="889 682 1192 709">>5 inches</td> <td data-bbox="1195 682 1417 709">4 qt</td> </tr> </tbody> </table> <p>NOTE: Apply before symptoms appear. Ridomil Gold SL will not revitalize trees showing moderate to severe disease symptoms.</p> <p>Use Ridomil Gold SL in conjunction with good cultural practices and rootstocks that are most tolerant to disease.</p>	Trunk diameter at 12 inches above the soil line	Quantity of Diluted Mixture	<1 inch	1 qt	1-3 inches	3 qt	>5 inches	4 qt
Trunk diameter at 12 inches above the soil line	Quantity of Diluted Mixture										
<1 inch	1 qt										
1-3 inches	3 qt										
>5 inches	4 qt										

Use Restrictions:

- 1) Do not graze or feed cover crops in treated orchards.

Asparagus	Crown Rot Spear Rot (<i>Phytophthora</i> spp.)	1.0 pt/A (0.50)	<p>Soil spray (broadcast or band) Cutting beds: Apply 30 to 60 days before the first cutting. Apply again just before the beginning of harvest.</p> <p>New plantings: Apply after planting seedlings or after covering one-year old crowns.</p>
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Use Restrictions:

- Do not apply within one day of harvest (1-day PHI).

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Avocados	Root Rot (<i>Phytophthora cinnamomi</i>)	1.0-4.0 pt/A (0.50-2.0)	<p>Sprinkler irrigation: Apply as a soil surface spray to the soil surface under the tree canopy or via the irrigation system (drip, microemitter, sprinkle). Begin applications at the start of the growing season or at transplanting. Two additional applications may be made at 3-month intervals. Applications are not needed during the winter months of November through February.</p> <p>Use 1.0 pt/A if the trees have a canopy diameter of 2 ft. Increase the rate as the canopy diameter increases. For canopy diameters of 15 ft or more, use the 4.0 pt/A rate.</p> <p>Soil spray: Apply to the soil directly under the drip emitter. Use irrigation to incorporate the material into the soil. If there is more than one emitter, distribute the amount of Ridomil Gold SL among the emitters. Use the same rate and application regime described above under sprinkler irrigation.</p> <p>Begin applications as soon as soil tests indicate the presence of <i>Phytophthora</i>.</p> <p>For new plantings, use <i>Phytophthora</i>-resistant rootstocks.</p> <p>Mature trees in moderate to advanced stages of decline cannot be cured with Ridomil Gold SL.</p>

For additional applications, see Avocados in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not apply within 28 days of harvest (28-day PHI).
- 2) Do not exceed the equivalent of 6.0 lb ai/A per crop of soil-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Bushberry Subgroup:</p> <p>Blueberries (High and Low Bush) Currants Elderberry Gooseberry Highbush Cranberry Lingonberry</p> <p>Hybrids, cultivars, and varieties of these.</p> <p>*See below for additional berries subgroup.</p>	<p>Root Rot (<i>Phytophthora</i> spp.)</p>	<p>3.6 pt/A (1.8)</p>	<p>Soil Application (band or via drip/micro-sprinkler irrigation) New Plantings: After initial at-planting application (Part 1), reapply once during a period favorable for root rot.</p> <p>Established Plantings: Before the plants start to grow in the spring, make a soil-directed application towards the base of the plant in a 3-ft band over the row or via the drip irrigation. One additional application may be made to coincide with the period most favorable for root rot development.</p> <p>Ridomil Gold SL will not revitalize plants showing moderate to severe root rot symptoms.</p> <p>Use Ridomil Gold SL in conjunction with good cultural practices to minimize disease.</p>

*Aronia Berry, Highbush Blueberry, Lowbush Blueberry, Buffalo Currant, Chilean Guava, Black Currant, Red Currant, Elderberry, European Barberry, Gooseberry, Highbush Cranberry, Honeysuckle (Edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Native Currant, Salal, Sea Buckthorn.

Use Restrictions:

- 1) Ridomil Gold SL may be applied the day of harvest (0-day PHI).
- 2) Do not exceed the equivalent of 3.6 lb ai/A per crop of soil-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Caneberry (Blackberry and Raspberry) Subgroup:</p> <p>Blackberry Loganberry Raspberry (Red and Black) Wild Raspberry Cultivars</p> <p>Hybrids, cultivars, and varieties of these.</p> <p>*See below for additional types of caneberries.</p>	<p>Root Rot (<i>Phytophthora</i> spp.)</p>	<p>3.6 pt/A (1.8)</p>	<p>Soil Application (band or via drip/micro-sprinkler irrigation) New Plantings: After initial at-planting application (Part 1), reapply once during a period favorable for root rot.</p> <p>Established Plantings: Before the plants start to grow in the spring, make a soil-directed application towards the base of the plant in a 3-ft band over the row or via the drip irrigation. One additional application may be made to coincide with the period most favorable for root rot development.</p> <p>Ridomil Gold SL will not revitalize plants showing moderate to severe root rot symptoms.</p> <p>Use Ridomil Gold SL in conjunction with good cultural practices to minimize disease.</p>

*Andean Blackberry, Arctic Blackberry, Bingleberry, Black Satin Berry, Boysenberry, Brombeere, California Blackberry, Cherokee Blackberry, Chesterberry, Cheyenne Blackberry, Common Blackberry, Coryberry, Darrowberry, Dewberry, Dirksen Thornless Berry, Evergreen Blackberry, Himalayaberry, Hullberry, Lavacaberry, Loganberry, Lowberry, Lucretiaberry, Mammoth Blackberry, Marionberry, Mora, Mures Deronce, Nectarberry, Northern Dewberry, Olallieberry, Oregon Evergreen Berry, Phenomenalberry, Rangeberry, Ravenberry, Rossberry, Shawnee Blackberry, Southern Dewberry, Tayberry, Youngberry, and Zarzamora.

Use Restrictions:

- 1) Do not use an adjuvant.
- 2) Do not apply Ridomil Gold SL within 45 days of harvest (45-day PHI).
- 3) Do not exceed the equivalent of 1.8 lb ai/A per crop of soil-applied and 0.2 lb ai/A per crop of foliar-applied mefenoxam-containing products for a maximum seasonal application rate of 2.0 lb ai/A.
- 4) If a foliar-directed application of a mefenoxam product is used, do not exceed the equivalent of 1.8 lb ai/A per crop of soil-applied and 0.2 lb ai/A per crop of foliar-applied mefenoxam-containing products for a maximum seasonal application rate of 2.0 lb ai/A.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Carrots	Cavity Spot Root Dieback (<i>Pythium</i> spp.)	0.25-1.0 pt/A (0.125-0.5)	<p>For post planting applications: Begin 28-50 days after planting. Apply on a 14- to 21-day interval by chemigation, by ground equipment with a spray directed to the base of the plant, or shanked in with liquid fertilizer. All ground applications must be followed by irrigation by one inch of water to promote movement of material into the root zone.</p> <p>Directed spray (broadcast or band): Make up to 4 applications beginning 40-60 days after planting on a 14- to 21-day interval. Apply as a spray directed to base of plant. Use sufficient water to provide uniform coverage of soil.</p> <p>For banded applications, use a 7-inch band.</p> <p>Irrigation: Inject Ridomil Gold SL into the irrigation water.</p> <p>For best control of cavity spot, use a preventive disease control program that incorporates an at-planting or seed treatment use of Ridomil Gold SL or Apron XL followed by one or more additional applications.</p>

For additional applications, see Carrots in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) If a seed treatment containing mefenoxam or metalaxyl is used, do not use a soil application.
- 2) Do not exceed a total of 1.5 pt/A (0.75 lb ai/A) on post planting applications.
- 3) Do not exceed a total of 1 pt/A (0.5 lb ai/A) per single post planting application.
- 4) To avoid illegal residues, DO NOT apply more than 2.8 pt (1.4 lb ai/A) of Ridomil Gold SL per acre per crop season. The total can be split as instructed below.
- 5) Do not exceed the equivalent of 1.4 lb ai/A (2.8 pt/A) per crop of total mefenoxam-containing products. The total can be split as instructed below.
- 6) Do not exceed the equivalent of 0.65 lb ai/A (1.3 pt/A) per crop of soil-applied and 0.75 lb ai/A (1.5 pt/A) per crop of foliar-applied mefenoxam-containing products.
- 7) Do not apply within 7 days of harvest (7-day PHI).

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
Citrus Calamondin Citrus Citron Citrus Hybrids (chironja, tangelo, tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Orange (sour and sweet) Pummelo Satsuma Mandarin	Citrus Foot Rot Root Rot Trunk Canker Brown Rot Gummosis <i>(Phytophthora spp.)</i> NOTE: for best Phytophthora control, a combination of cultural practices, fungicides with differing modes of action, and resistant varieties are recommended.	Broadcast 1 qt/A (1 lb ai)	Citrus Resets or New Plantings: Timing: Make the first application at the time of planting. Make two or three applications per year (spring + summer, summer + fall, or spring + summer + fall). Application Method: Spray boom: Apply to soil beneath the tree canopy if rain is not expected within 24 hours after application, sprinkler irrigate with ½ to 1 inch of water to move product into root zone.
		Irrigation 0.5 pt/grove acre	
		California only Broadcast 1.0-2.0 qt/A (1.0-2.0)	Water ring drench: Apply 5 gal of the mix around the base of each tree within the watering ring of resets or new plantings.
		Irrigation 0.5 – 1 pt/grove acre	
1.0-1.5 fl oz/ 100 gal water	Newly planted to 6 months 0.5 fl oz/20 trees		
Trees > 6 months 1.0–1.5 fl oz/20 trees			

Citrus, continued	Broadcast 1 pt/A – 1qt	<p>Established Plantings: Timing: Begin Ridomil Gold SL applications during the spring root flush period. One or two additional applications may be made to coincide with flushes of root growth. Time applications as in the <i>Citrus Resets</i> or <i>New Plantings</i> sections above.</p> <p>Application Method: Spray Boom: Apply to soil beneath the tree canopy. If rain is not expected within 24 hours after application, sprinkler irrigate with ½ to 1 inch of water to move product into root zone.</p> <p>Irrigation: Ridomil Gold SL can be applied through irrigation water (micro-sprinkler or drip).</p> <p>Consult local extension bulletins for additional use directions.</p>
	Irrigation 0.5 -1.0 pt/grove acre	
	California only Broadcast 1.0 pt-3.0 qt/A (0.5-3.0)	
	1 qt in 3 gal water (1.0)	<p>Trunk Spray for Gummosis: Spray the trunks to thoroughly wet the cankers. Apply up to 3 times per year.</p> <p>In FL, add 1.0 qt to 10 gal of water.</p>

Use Restrictions:

- 1) For resistance management, do not apply to citrus in field or greenhouse nurseries.
- 2) Do not apply to bare roots.
- 3) Do not apply rates higher than 1 qt/A to citrus resets or new plantings (less than 5 years old) in FL, PR and TX to prevent potential phytotoxicity.
- 4) Do not use on the highly Phytophthora susceptible sweet orange rootstock in FL.
- 5) Do not make trunk gummosis sprays and soil applications to the same tree in the same cropping season.
- 6) Do not apply tank mixes of Ridomil Gold SL and residual herbicides to trees less than 3 years old. Apply the herbicide first; then wait 3-4 weeks to apply Ridomil Gold SL.
- 7) Do not exceed the equivalent of 6.0 lb ai/A per crop of mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Application Directions
<p>Cole Crops</p> <p>Broccoli Brussels Sprouts Cabbage Cauliflower Collards Mustard Greens Turnip Greens (greens only)</p> <p>Hybrids, cultivars, and varieties of these.</p> <p>*See additional cole crops below.</p>	<p>Downy Mildew (<i>Peronospora parasitica</i>)</p>	<p>0.125-0.25 pt/A (0.063-0.125)</p>	<p>Foliar spray (ground or air): Ridomil Gold SL must be used in a tank mix with other fungicides registered for control of downy mildew. Apply with the full label rate of the tank mix partner fungicide.</p> <p>Apply when conditions are favorable for disease, but before infection on a 14-day schedule.</p> <p>NOTE: Foliar applications to turnip plants may not be made to dual purpose turnip cultivars or varieties which produce a harvestable root.</p>

*Broccoli Raab (rapini), Cavalo Broccolo, Chinese Broccoli (gai lon), Chinese Cabbage, (bok choy and napa), Chinese Mustard Cabbage (gai choy), Kale, Kohlrabi, Mizuna, Mustard Spinach, and Rape Greens.

For additional applications, see Cole Crops in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not apply foliar sprays of Ridomil Gold SL without a labeled tank-mix partner.
- 2) Do not apply the Ridomil Gold SL mixture in fields where downy mildew is already established.
- 3) Do not apply Ridomil Gold SL within 7 days of harvest (7-day PHI). However, refer to the label of the tank-mix partner and follow the more restrictive PHI.
- 4) Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.50 lb ai/A per crop of foliar-applied mefenoxam-containing products.

<p>Cranberries</p>	<p>Phytophthora Root Rot (<i>Phytophthora</i> spp.)</p>	<p>1.0-1.75 pt/A (0.50-0.90)</p>	<p>Soil spray (broadcast): Apply 3 times by ground or chemigation equipment. Make the first application in the fall after harvest. Make the second application in the spring, and the final application up to, but no later than, 45 days before harvest.</p>
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Use Restrictions:

- 1) Do not apply by air.
- 2) Do not apply within 45 days of harvest (45-day PHI).
- 3) Do not exceed the equivalent of 2.65 lb ai/A per crop of soil-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
<p>Cucurbits</p> <p>Cantaloupe Cucumber Honeydew Pumpkin Squash, Summer Squash, Winter Watermelon</p> <p>Hybrids, cultivars, and varieties of these.</p> <p>*See additional cucurbit crops below.</p>	<p>Root Rot (<i>Pythium</i> spp.)</p>	<p>0.25-0.4 pt/A (0.125-0.20)</p> <p>Suppression: Phytophthora blight (<i>Phytophthora capsici</i>)</p>	<p>Soil spray (directed): If soil applications of Ridomil Gold SL were made at planting, two additional applications at 20- to 30-day intervals may be made during the season.</p> <p>Direct the spray to the base of the plants and cover 6-8 inches of the soil on either side of the plants. Incorporate mechanically or sprinkler-irrigate to move the Ridomil Gold SL into the root zone.</p> <p>Injection (drip irrigation): Inject Ridomil Gold SL into the irrigation water at the labeled rates.</p>

*Chayote, Chinese Waxgourd, Citron Melon, Gherkin, Gourd (edible), *Momordica* spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber), and Muskmelons (casaba, crenshaw, golden pershaw, honey balls, mango, Persian, pineapple, Santa Claus, snake melons).

For additional applications, see Cucurbits in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not apply within 5 days of harvest (5-day PHI).
- 2) Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
<p>Fruiting Vegetables (Except Cucurbits)</p> <p>Eggplant Groundcherry Pepino Pepper (bell, chili, cooking pepper, pimento, sweet) Tomatillo Tomato (see <i>Tomato</i> section for use directions)</p>	<p>Crown Rot (<i>Phytophthora capsici</i>)</p>	<p>1.0 pt/A (0.50)</p>	<p>Banded spray: Make 2 post-directed applications at 30-day intervals following transplanting. Direct the spray to the base of the plants and cover 6-8 inches of the soil on either side of the plants. Incorporate mechanically or sprinkler-irrigate to move the Ridomil Gold SL into the root zone.</p> <p>Shank application: Apply in liquid fertilizer, shanked in as a banded treatment to either side of the plant.</p> <p>Injection (drip irrigation): Inject Ridomil Gold SL into the irrigation water at the labeled rates.</p> <p>May cause some yellowing of pepper leaves.</p> <p>Apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora</i> cannot be cured with Ridomil Gold SL.</p> <p>The foliar blight phase of <i>Phytophthora</i> cannot be controlled with foliar applications of Ridomil Gold SL</p>

For additional applications, see Fruiting Vegetables in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not apply within 7 days of harvest (7-day PHI).
- 2) Do not exceed the equivalent of 1.5 lb ai/A per crop of soil-applied mefenoxam-containing products and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Herbs (Fresh and Dried) Basil Chervil (dried) Chive Coriander (leaf) Cilantro (leaf) Dillweed Lemongrass Rosemary Sage Savory, Summer and Winter Sweet Bay Tarragon Thyme *See additional herbs below.	Damping Off (<i>Pythium</i> spp.)	1.0-2.0 pt/A (0.50-1.0)	Banded spray: Apply as a basally directed spray at 28 days after planting or after the first cutting. Direct the spray toward the base of the plants and cover 6-8 inches on each side of the plants (12- to 16-inch band width/row).

*Angelica, Balm, Borage, Burnet, Catnip, Chamomile, Chinese Chive, Clary, Costmary, Curry (leaf), Horehound, Hyssop, Lavender, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rue, Tansy, Wintergreen, Woodruff, and Wormwood.

For additional applications, see Herbs in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not apply within 21 days of harvest (21-day PHI).
- 2) Do not exceed the equivalent of 2.0 lb ai/A per crop of soil-applied mefenoxam-containing products.

Hops	Downy Mildew (<i>Pseudoperonospora humuli</i>)	0.50 pt/A (0.25)	Soil drench: Apply in water or liquid fertilizer to the soil over the crowns after pruning but before training. Apply early when shoots are 6 inches or less. Foliar spray: At the first sign of a secondary infection (primary infection persists after the soil drench and/or there is evidence of foliar infection), apply in combination with copper fungicides. Apply by ground with a minimum of 50 gal of water per acre.
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Use Restrictions:

- 1) Do not apply foliar sprays of Ridomil Gold SL without a copper fungicide registered for hops.
- 2) Do not apply within 45 days of harvest (45-day PHI).
- 3) Do not exceed the equivalent of 0.25 lb ai/A per crop of soil-applied and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Legume Vegetables, Succulent (Shelled) Bean, Broad Bean, Lima Cowpea Pea, Blackeyed Pea, English Pea, Garden Pea, Pigeon Pea, Southern	Downy Mildew (<i>Phytophthora parasitica</i>)	0.125 - 0.2 pt/A (0.063 - 0.1)	Foliar spray (ground or air): Ridomil Gold SL must be used in a tank mix with other fungicides registered for control of downy mildew. Apply with the full label rate of the tank mix partner fungicide. Apply on a 14-day schedule when conditions are favorable for disease, but before infection.

Use Restrictions:

- 1) For use only on succulent beans east of the Mississippi River.
- 2) Do not apply within 3 days of harvest (3-day PHI).
- 3) Do not exceed the equivalent of 0.5 lb ai/A per crop of soil-applied and 0.4 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Lettuce Head and Leaf	Downy Mildew (<i>Bremia lactucae</i>)	0.125-0.25 pt/A (0.063-0.125)	Foliar spray (ground or air): Ridomil Gold SL must be used in a tank mix with other fungicides registered for control of downy mildew. Apply with the full label rate of the tank mix partner fungicide. Apply when conditions are favorable for disease, but before infection on a 14-day schedule.
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For additional applications to Lettuce (Head and Leaf), see Leafy Vegetables (Except Brassica) in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not apply foliar sprays of Ridomil Gold SL without a labeled tank mix partner.
- 2) Do not apply the Ridomil Gold SL mixture in fields where downy mildew is already established.
- 3) Do not apply within 7 days of harvest (7-day PHI). However, refer to the label of the tank mix partner and follow the more restrictive PHI.
- 4) Do not apply more than 4 foliar applications per crop.
- 5) Do not exceed the equivalent of 1.0 lb ai/A per crop of soil-applied (pre-plant or at-planting) and 0.4 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Peanuts	Pod Rot (<i>Pythium</i> spp.)	0.5-1.0 pt/A (0.25-0.50)	Apply at early pod set as a soil spray or at pegging as a foliar spray (overhead irrigation).

For additional applications, see Peanuts in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Potatoes	Storage Rots Pythium leak (<i>Pythium</i> spp.) Pink rot (<i>Phytophthora erythroseptica</i>)	3.2 fl oz/A (0.1)	<p>Make the first application after tuber initiation, when the largest tubers are the size in diameter of a nickel. This period generally coincides with the initiation of flowering. Make a second application 14 days later. If the field has a history of storage rot problems, make a third application 14 days after the second application. If foliar diseases are expected, then a tank mix with a labeled rate of mancozeb or chlorothalonil products is required.</p> <p>Use in conjunction with other management practices such as crop rotation and resistant varieties.</p>
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Use Restrictions:

- 1) Do not exceed the equivalent of 0.34 lb ai/A per season of soil-applied and 0.4 lb ai/A per season of foliar applied mefenoxam-containing products.
- 2) Do not apply within 14 days of harvest (14-day PHI).

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
<p>Stone Fruits</p> <p>Apricot Cherry (sweet and tart) Nectarine Peach Plum (Chickasaw, Damson, Japanese) Plumcot Prune (fresh)</p> <p>Hybrids, cultivars, and varieties of these.</p>	<p>Crown Rot Collar Rot Root Rot</p> <p>(<i>Phytophthora</i> spp.)</p>	<p>2.0 qt/A (2.0)</p> <p>or</p> <p>1.5 fl oz/1,000 sq ft</p>	<p>Soil spray (broadcast, band or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings).</p> <p>Additional applications may be made at 2- to 3-month intervals, depending on disease pressure. Make up to 3 applications per year.</p> <p>Apply before symptoms appear. Ridomil Gold SL will not revitalize trees showing moderate to severe disease symptoms.</p> <p>For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1,000 sq ft).</p>

Use Restrictions:

- 1) Do not concentrate spray around tree trunks.
- 2) Do not apply to trees under stress.
- 3) In CA, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins.
- 4) Do not graze livestock in treated areas.
- 5) Do not graze or feed cover crops grown in treated orchards.
- 6) Do not exceed the equivalent of 6.0 lb ai/A per crop of soil-applied mefenoxam-containing products.
- 7) Do not apply more than 3 applications per year.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Strawberries	Red Stele (<i>Phytophthora fragariae</i>) Vascular Collapse (<i>P. cactorum</i>) Leather Rot (<i>P. cactorum</i>)	1.0 pt/A (0.50)	<p>Annual Plantings: Apply up to 3 times per crop by ground (banded), drip, or overhead chemigation. Make first application after transplanting. Make the second application 30 days before the beginning of harvest or at fruit set. Apply the third application during harvest, depending on disease pressure and environmental conditions.</p> <p>Established Plantings: Apply up to 3 times per crop by ground (banded), drip, or overhead chemigation. Make first application in the spring after the ground thaws and before first bloom. Make a second application after harvest in the fall. For control of leather rot, make an additional application during the growing season at fruit set.</p> <p>If applying through drip irrigation, calculate the rate as a band application with a band width equal to the root zone width. Inject Ridomil Gold SL into the irrigation water.</p> <p>Ridomil Gold SL may be applied the day of harvest.</p>

Use Restrictions:

- 1) Do not exceed the equivalent of 1.5 lb ai/A per crop of soil-applied mefenoxam-containing products.
- 2) Do not apply more than 3 applications per crop.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Strawberry plant production in field nurseries	Red Stele (<i>Phytophthora fragariae</i>) Vascular Collapse (<i>P. cactorum</i>) Leather Rot (<i>P. cactorum</i>)	1.0 pt/A (0.50)	<p>Field Nurseries: Apply to young plants in field nurseries by ground, drip, or overhead chemigation.</p> <p>If applying through drip irrigation, calculate the rate as a band application with a band width equal to the root zone width. Inject Ridomil Gold SL into the irrigation water.</p>

Use Restrictions:

- Do not exceed the equivalent of 1.0 lb ai/A per plant production cycle of mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Tobacco	Blue Mold (<i>Peronospora tabacina</i>)	0.50 pt/A (0.25) For no-till tobacco: 0.50-1.0 pt/A (0.25-0.50)	Soil spray (band): If Ridomil Gold SL was applied prior to transplanting, make an additional application at lay-by or the last cultivation. Position the nozzles so the spray is deposited under the plants and is covered by the soil in cultivation.
	Black Shank (<i>Phytophthora parasitica</i> var. <i>nicotianae</i>)	1.0-2.0 pt/A (0.50-1.0) For no-till tobacco: 0.50-1.0 pt/A (0.25-0.50)	<p>Soil Spray (broadcast or band): Position the nozzles so the spray is deposited under the plants and covered with soil by the cultivator. Use the higher specified rate if the disease epidemic is expected to be severe. Make one application at lay-by or make one application at the first cultivation and a second application at lay-by.</p> <p>Apply preventively for effective black shank control. If black shank is expected early in the season, apply as near as possible to transplanting followed by sequential applications.</p> <p>Consult local extension bulletins for additional use recommendations.</p> <p>For best results against black shank, use tobacco varieties that have high resistance to black shank and use crop rotation.</p> <p>In fields with a history of severe black shank, use the highest rate and plant a variety resistant to the race of <i>Phytophthora</i> present (Burley L8 hybrids are resistant to only <i>Phytophthora</i> Race 0).</p> <p>Failure to adequately control nematodes in fields treated with Ridomil Gold SL may result in poor control of black shank.</p>

For additional applications, see Tobacco in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- 1) Do not use in high black shank areas on highly susceptible flue-cured varieties.
- 2) Do not use Ridomil Gold SL for black shank control in PA.
- 3) Do not exceed the equivalent of 1.5 lb ai/A per crop of mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Tomato	Root and Fruit Rot (<i>Phytophthora</i> spp.) (<i>Pythium</i> spp.)	1.0 pt/A (0.50)	Soil spray (broadcast or band) or soil injection: Apply as a directed soil surface spray under the vines or injected into the beds with water or liquid fertilizer. Make application 4-6 weeks after planting. If needed, make a second application up to 4 weeks before harvest, but before the last irrigation.

For additional applications, see Tomato in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Use Restrictions:

- Do not exceed the equivalent of 1.5 lb ai/A per crop of soil-applied mefenoxam-containing products and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Tree Nuts Almonds and Walnuts only	Crown Rot Collar Rot Root Rot (<i>Phytophthora</i> spp.)	2.0 qt/A (2.0) or 1.5 fl oz/ 1,000 sq ft	Soil spray (broadcast, band or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Additional applications may be made at 2- to 3-month intervals, depending on disease pressure. Make up to 3 applications per year. Apply before symptoms appear. Ridomil Gold SL will not revitalize trees showing moderate to severe disease symptoms. For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1,000 sq ft).
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Use Restrictions:

- Do not concentrate spray around tree trunks.
- Do not apply to trees under stress.
- In CA, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins.
- Do not graze livestock in treated areas.
- Do not graze or feed cover crops grown in treated orchards.
- Do not exceed the equivalent of 6.0 lb ai/A per crop of soil-applied mefenoxam-containing products.
- Do not apply more than 3 applications per year.

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
Tropical Fruit Papaya Black Sapote Star Apple Canistel Mamey Sapote Mango Sapodilla	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	1.5-3.0 pt/A (0.75-1.5)	Soil Drench: Add Ridomil Gold SL to water or a liquid fertilizer solution at the rate of 1.5-3.0 pt/A. Apply this solution to the base of the plants to deliver approximately 5 gallons per plant. Two applications may be made per growing season. Make the first application at transplanting or in the spring at root growth flush. Make a second application at least 1 day before harvest.

Use Restrictions:

- 1) Do not apply more than 6.0 pt/A (3.0 lb ai/A) per season.
- 2) Do not apply within 1 day of harvest (1-day PHI).
- 3) Do not apply more than 2 applications per season.

Tropical Fruit Sugar Apple Atemoya Custard Apple Cherimoya Ilima Soursop Birida	Pythium Root and Crown Rot Damping Off (<i>Pythium</i> spp.) Phytophthora Root and Crown Rot (<i>Phytophthora</i> spp.)	1.5-3.0 pt/A (0.75-1.5)	Soil Drench: Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Make one application in the spring when root growth begins and a second application in the fall. Direct applications to the soil surface under the canopy of the trees.
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Use Restrictions:

- Do not apply within 30 days of harvest (30-day PHI).

Tropical Fruit Starfruit	Phytophthora Root and Crown Rot (<i>Phytophthora</i> spp.) Pythium Root and Crown Rot (<i>Pythium</i> spp.)	1.5-3.0 pt/A (0.75-1.5)	Soil Drench: Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Make one application in the spring when root growth begins and a second application in the fall. Direct applications to the soil surface under the canopy of the trees.
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Use Restrictions:

- Do not apply within 30 days of harvest (30-day PHI).

Crop	Target Diseases (Pathogen)	Product Use Rate (lb ai)	Additional Directions
<p>Tropical Fruit Kiwifruit</p>	<p>Root and Crown Rot (<i>Pythium</i> and <i>Phytophthora</i> spp.)</p>	<p>5.6-11.2 fl oz/ 40 gal of water (0.175-0.35)</p>	<p>Soil Drench: Apply 1.0 qt of Ridomil Gold SL solution as a soil drench in a one square foot area around the base of each vine. At the labeled rate of 5.6-11.2 fl oz, this will apply 0.175-0.350 lb ai/A if the planting density is 160 vines per acre.</p> <p>Make the first application in the fall after harvest or in February or early March. Make a second application in spring or approximately 60 days after the February or March application.</p>
		<p>11.2 fl oz (0.35)</p>	<p>Banded Soil Application: Make up to five applications as a spray toward the soil in a 2- to 3-ft band on each side of the row. Begin applications in April and follow with two additional applications on a 30-day interval. Make the fourth application in September and the final application approximately 30 days later, which must be at least 7 days before harvest.</p>

Use Restrictions:

- 1) Do not apply within 7 days of harvest (7-day PHI).
- 2) Do not apply more than 3.5 pt/A (1.75 lb ai/A) Ridomil Gold SL per growing season.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility

of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

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